



The ESI 48/230V Inverter



Description:

The ESI 48/230V inverters are single phase, fan-cooled inverters. They convert all direct voltages from 48 V battery systems to an uninterruptible, stabilized AC voltage. The outstanding dynamic performance matches the supply requirements for state-of-the-art telecom equipment. This performance as well as the advanced technology is the key factors of the success of this inverter and it offers a cost effective and reliable solution.

Features

- Standard 19", 23" and 25" rack
- 1KVA/800W, 2KVA/1600W
- Selectable 208/220V/230V/240V system output
- High efficiency
- Pure sine wave output
- Compact, lightweight modular design
- Bypass function
- RS-232 communication
- User friendly LED and LCD display

Specification

General

| | |
|------------------------------|--|
| Product name | ESI 48 / 230 V – 1k VA ESI 48 / 230 V – 2k VA |
| Efficiency, at 230Vrms | 85 % |
| Safety | UL 60950 EN 60950 CAN/CSA-C22.2 No. 60950 |
| EMI, radiated compliant with | FCC Part 15 class A EN 55022 class A |
| Cooling | Fan cooled |
| On/Off Switch | Yes |
| MTBF | 450K Hours |

Input

| | |
|------------------|-----------------------------|
| Input voltage | 40 ... 60 V _{dc} |
| Rated current | 25 A (1k VA) / 50 A (2k VA) |
| EMI, conducted | EN 55022, class A |
| Input protection | Fuse and DC breaker |

AC Input(Bypass)

| | |
|-------------------------------|--|
| Input voltage | 208 / 220 / 230 / 240 V _{rms} ± 20 V _{rms} |
| Frequency | 50 / 60 Hz ± 5 Hz |
| EMI, conducted compliant with | FCC Part 15 class A EN 55022 class A, EN 55022 class A |

Output

| | |
|--------------------|---|
| Output voltage | 208 / 220 / 230 / 240 V _{rms} |
| Voltage regulation | < ± 2 % |
| Frequency | 50 / 60 Hz ± 0.2 Hz |
| THD | 3 %: 100% liner load 5 %: 100% SPS load |
| Current, nominal | 5 A _{rms} (1k VA) 10 A _{rms} (2k VA) |
| Crest factor | 3 : 1 |
| Power, nominal | 1k VA / 800 W 2k VA / 1600 W |

Mechanics

| | |
|-----------------|--|
| Width, overall | 17.3" / 440 mm |
| Depth, overall | 11.8" / 300 mm |
| Height, overall | 3.5" / 88.0 mm |
| Weight | 17.6 lb / 8.0 kg (1k VA) 18.7 lb / 8.5 kg (2k VA) |

Environment

| | |
|-----------------------|---------------------------|
| Operating temperature | 0 ... + 45 °C |
| Relative humidity | 20 ~ 90 %, non condensing |
| Altitude | - 500 ~ 10000 feet |

*Specifications are subject to change due to technical progress

